

Trade and Industrial Education Industry Certification Teacher, Student, and Program

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Transportation Cluster Course Name	Course Code	Teacher Certification	Student Certification Available	Program Certification Availability	Certifying Agency
Aviation Maintenance I	5703	Yes	NO	None	
Aviation Maintenance II	5704	FAA (Federal Aviation Administration) A & P License (Airframe & Powerplant) or IA License (Inspector Authorization)			
Automotive Technology <ul style="list-style-type: none"> Automotive: Brake Systems Automotive: Suspension & Steering Automotive: Electrical/Electronic Systems Automotive: Engine Performance 	5712 5710 5713 5711	Yes ASE in courses taught. <ul style="list-style-type: none"> Brakes, Steering & Suspension Electrical/Electronics Engine Performance 	Yes ASE <ul style="list-style-type: none"> Brakes, Steering & Suspension Electrical/Electronics Engine Performance 	NATEF	ASE (Automotive Service Excellence) in courses taught. www.asecert.org
Collision Repair Technology <ul style="list-style-type: none"> Collision Repair: Non Structural Collision Repair: Structural Collision Repair: Painting & Refinishing 	5707 5708 5709	Yes ASE (Automotive Service Excellence) in courses taught. <ul style="list-style-type: none"> Painting & Refinishing Structural Damage & Repair Non-Structural Damage & Repair Plastics and Adhesives 	Yes ASE (Automotive Service Excellence) in courses completed <ul style="list-style-type: none"> Painting & Refinishing Structural Damage & Repair Non-Structural Damage & Repair Plastics and Adhesives 	NATEF	ASE (Automotive Service Excellence) in courses taught. www.asecert.org
Diesel Equipment Technology <ul style="list-style-type: none"> Diesel: Brake Systems Diesel: Suspension & Steering Diesel: Electrical/Electronics Diesel: Preventive Maintenance Diesel : Engines 	5715 5716 5717 5714 5718	Yes ASE (Automotive Service Excellence) in courses taught. <ul style="list-style-type: none"> Brakes Steering & Suspension Electrical/Electronics Preventive Maintenance Engines 	Yes ASE (Automotive Service Excellence) in courses completed <ul style="list-style-type: none"> Brakes Steering & Suspension Electrical/Electronics Preventive Maintenance Engines 	NATEF	ASE (Automotive Service Excellence) in courses taught. www.asecert.org
Leisure Craft/Small Engine Technology: Systems	5705	None	None	None	NA
Leisure Craft/Small Engine Technology: Engine Performance	5706	None	None	None	NA
Introduction to Aerospace	5719	Yes FAA (Federal Aviation Administration) Ground School Instructor Certification	No	None	FAA (Federal Aviation Administration) Ground School Instructor Certification
Theory of Flight	5720	Yes FAA (Federal Aviation Administration) Ground School Instructor Certification	NO	None	FAA (Federal Aviation Administration) Ground School Instructor Certification

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Construction Cluster Course Name	Course Code	Teacher Certification	Student Certification Available	Program Certification Availability	Certifying Agency
Construction Core	5730	Yes U.S. Department of Labor, BAT (Bureau of Apprenticeship and Training) Journey Person Level in any construction area or NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum	Yes Student certification through NCCER at the completion of course for Construction Core	NCCER	U.S. Department of Labor, BAT (Bureau of Apprenticeship and Training) Journey Person Level or www.doleta.gov/bat/index.htm NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum www.nccer.org
Carpentry I Carpentry II	5731 5732	Yes U.S. Department of Labor, BAT (Bureau of Apprenticeship and Training) Journey Person Level Carpentry or NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum - Carpentry	Yes Student certification Level I Carpentry through NCCER at the completion of Carpentry II	NCCER	U.S. Department of Labor, BAT (Bureau of Apprenticeship and Training) Journey Person Level or www.doleta.gov/bat/index.htm NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum or www.nccer.org Masonry Institute of Tennessee
Concrete I Concrete II Masonry I Masonry II	5737 5738 5735 5736	Yes U.S. Department of Labor, BAT (Bureau of Apprenticeship and Training) Journey Person Level Concrete or Masonry or NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum - Concrete or Masonry	Yes Student certification Level I Concrete through NCCER at the completion of Concrete II Student certification Level I Masonry through NCCER at the completion of Masonry II	NCCER	U.S. Department of Labor, BAT (Bureau of Apprenticeship and Training) Journey Person Level or www.doleta.gov/bat/index.htm NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum or www.nccer.org Masonry Institute of Tennessee
Electrical I Electrical II	5733 5734	Yes U.S. Department of Labor, BAT (Bureau of Apprenticeship and Training) Journey Person Level Electrical or NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum - Electrical	Yes Student certification Level I Electrical through NCCER at the completion of Electrical II	NCCER	U.S. Department of Labor, BAT (Bureau of Apprenticeship and Training) Journey Person Level or www.doleta.gov/bat/index.htm NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum or www.nccer.org Tennessee Electrician License

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Construction Cluster Course Name	Course Code	Teacher Certification	Student Certification Available	Program Certification Availability	Certifying Agency
Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC) I Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC) II	5741 5742	Yes U.S. Department of Labor, BAT (Bureau of Apprenticeship and Training) Journey Person Level Electrical, Plumbing & Pipefitting, HVACR or NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum - HVACR or Electrical	Yes Student certification Level I HVACR through NCCER at the completion of HVACR II	NCCER and HVAC Excellence is being reviewed.	U.S. Department of Labor, BAT (Bureau of Apprenticeship Training) Journey Person Level or www.doleta.gov/bat/index.htm NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum or www.nccer.org RSES (Refrigeration Service Engineers Society) or www.rses.org or NATE (North American Technician Excellence) www.natex.org www.natex.org/curriculum.htm
Plumbing I Plumbing II	5739 5740	Yes U.S. Department of Labor, BAT (Bureau of Apprenticeship and Training) Journey Person Level Plumbing or Pipe Fitting or NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum - Plumbing or Pipe Fitting	Yes Student certification Level I Plumbing through NCCER at the completion of Plumbing II	NCCER	U.S. Department of Labor, BAT (Bureau of Apprenticeship and Training) Journey Person Level or www.doleta.gov/bat/index.htm NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum www.nccer.org
Basic Principles of Welding Advanced Welding Applications	5786 5787	Yes AWS (American Welding Society) Certified Welder in FCAW, GTAW, GMAW, SMAW or CWE, or CWI. or Apprenticeship Training) Journey Person Level in Welding or Pipe Fitting or NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum - Welding	Yes AWS Certification FCAW, GTAW, GMAW, SMAW or CWE, or CWI at completion of Welding Applications NCCER Certification on courses completed.	S.E.N.S.E through AWS	AWS (American Welding Society) Certified Welder in FCAW, GTAW, GMAW, SMAW or CWE, or CWI. www.aws.org or Apprenticeship Training) Journey Person Level www.doleta.gov/bat/index.htm or NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum www.nccer.org
Computer Aided Drafting Advanced Computer Aided Drafting	5788 5789	Yes ADDA (American Design and Drafting Association)	Yes ADDA (American Design and Drafting Association) at completion of Advanced Computer Aided Design	None	ADDA (American Design Drafting Association) www.adda.org
Arts and Communication Cluster	Course Code	Teacher Certification	Student Certification Available	Program Certification Availability	Certifying Agency

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Information Technology Foundations	5755	Yes At or NetPlus or CIW or CISCO	None	None	CompTIA (Computing Technology Industry Association) A-Plus Certification Or CompTIA (Computing Technology Industry Association) Net-Plus Certification
Computer Operating Systems and Hardware	5756	Yes A+ or CISCO	Yes At	None	CompTIA (Computing Technology Industry Association) A-Plus Certification www.comptia.org
Networking	5757	Yes NetPlus or CISCO	Yes Netplus	None	CompTIA (Computing Technology Industry Association) Net-Plus Certification www.comptia.org
Web Site I – Foundations Web Page Design II – Site Designer Web Page Design III - eCommerce	5766 & 5767	Yes Web Site I – Foundations. CIW Associate Foundation Certification Web Page Design II-Site Designer, CIW Site Designer Web Page Design III – eCommerce, CIW eCommerce Designer	Yes Web Site I – Foundations. CIW Associate Foundation Certification Web Page Design II-Site Designer, CIW Site Designer Web Page Design III – eCommerce, CIW eCommerce Designer	None	CIW (Certified Internet Webmaster) www.computerprep.comf Web Site I – Foundations. CIW Associate Foundation Certification Web Page Design II-Site Designer, CIW Site Designer Web Page Design III – eCommerce, CIW eCommerce Designer *The footnote on 595 reads: "Individuals with this endorsement would have three years from the school year they begin teaching this course (including that school year) to obtain required industry certification. This would be true regardless of whether the person taught all three years consecutively or not. For Example: If a teacher begins teaching Information Technology Infrastructure [5755] in school year 2003-04, doesn't teach it in 2004-05 or 2005-06, but resumes teaching it in 2006-07, at that time, he/she would have to have the industry certification. *Footnote from The Correlation of Course and Endorsement Codes document
Visual Communications Digital Design and Imaging	5759	None	None	None	
Graphic Communications I Graphic Communications II	5760 5761 5762	None	None	PrintED	www.PrintED.org
Media Concepts Electronic Media Productions Electronic Media Management & Operations	5763 5764 5765	None	None	None	

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Manufacturing Cluster	Course #	Teacher Certification	Student Certification Available	Program Cert. Availability	
Programming & Logic	5701	None	None	None	
Principles of Manufacturing	5780	None	None	NIMS (Being Reviewed)	
Computer Aided Drafting Advanced Computer Aided Drafting	5788 5789	Yes ADDA (American Design and Drafting Association)	Yes ADDA (American Design and Drafting Association) at completion of Advanced Computer Aided Design	None	ADDA (American Design Drafting Association www.adda.org)
Principles of Engineering	5784	None	None	NIMS (Being Reviewed)	
Principles of Machining and Manufacturing	5782	None	None	NIMS (Being Reviewed)	
Digital Electronics	5783	None	None	None	
Basic Principles of Welding Advanced Welding Applications	5786 5787	Yes AWS (American Welding Society) Certified Welder in FCAW, GTAW, GMAW, SMAW or CWE, or CWI. or Apprenticeship Training) Journey Person Level in Welding or Pipe Fitting or NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum - Welding	Yes AWS Certification FCAW, GTAW, GMAW, SMAW or CWE, or CWI at completion of Welding Applications NCCER Certification on courses completed.	S.E.N.S.E through AWS	AWS (American Welding Society) Certified Welder in FCAW, GTAW, GMAW, SMAW or CWE, or CWI. www.aws.org or Apprenticeship Training) Journey Person Level www.doleta.gov/bat/index.htm or NCCER (National Center for Construction Education and Research) Wheels of Learning Curriculum www.nccer.org

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Human Resources Cluster Course Name	Course Number	Teacher Certification	Student Certification Available	Program Certification Availability	Certifying Agency
Principles of Cosmetology	5338	Yes Tennessee Cosmetology Instructor License	Yes Students with 300 hours and a concentration in Shampooing may take the TN Board of Cosmetology Shampooing Exam.	None	Tennessee State Board of Cosmetology
Design Principles of Cosmetology	5339	Yes Tennessee Cosmetology Instructor License		None	Tennessee State Board of Cosmetology
Chemistry of Cosmetology	5340	Yes Tennessee Cosmetology Instructor License	Yes Students with 600 hours and concentration in Manicuring may take the Tennessee Board of Cosmetology Manicuring Exam. Students with 1500 hours in cosmetology may take the Tennessee Board of Cosmetology Exam.	None	Tennessee State Board of Cosmetology
Criminal Justice I, II, & III	5330 5331 5342	None	None	None	
Hospitality & Tourism Course Name	Course Code	Teacher Certification	Student Certification Available	Program Certification Availability	Certifying Agency
Culinary Arts I, II, & III	5381, 5382, 5383	Yes ServSafe Food Safety Instructor or National Registry of Food Safety Professionals or CCE Culinary Chef Educator	Yes ServSafe or National Registry of Food Safety Professionals or CCE Culinary Chef Educator	ACCESS through the American Culinary Federation	ServSafe Food Safety (National Restaurant Association) or National Registry of Food Safety Professionals or CCE Culinary Chef Educator